

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2016 Levee Inspection Results****Reclamation District No. 0150 Merrit Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
**SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

**FALL INSPECTIONS:** The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2016 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway			Bank	Unit Miles
Unit No. 01 Sutter Slough			Left	0.52
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/15/2016 - 3/15/2016			
DWR Inspector	Pavel Kazi			
Accompanied By				

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	03/15/2016 03/15/2016	Pavel Kazi

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>4</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0150_01_s_2013_4				
Comment Code					
Inspector Comment					
This LMA has the updated O&M manuals for their district.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>5</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0150_01_s_2013_5				
Comment Code					
Inspector Comment					
This LMA has adequate amount of flood fighting materials in a centralized location.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>6</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0150_01_s_2013_6				
Comment Code					
Inspector Comment					
The crew of this LMA had flood fighting training from DWR.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.03	Rating **	M	Issue No.	7
LM End	0.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.332483 °	38.328172 °
				-121.583042 °	-121.576431 °
DWR ID	DWR_RD0150_01_s_2016_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_15\_7\_20160318\_00005.jpg



View of the vegetation on the landside slope of the levee.

LM Start	0.03	Rating **	M	Issue No.	1
LM End	0.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.332483 °	38.328171 °
				-121.583041 °	-121.576432 °
DWR ID	DWR_RD0150_01_s_2016_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_15\_1\_20160318\_00004.jpg



View of the vegetation on the waterside slope of the levee.

LM Start	0.19	Rating **	A/W	Issue No.	3
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331402 °	38.331402 °
				-121.580358 °	-121.580358 °
DWR ID	DWR_RD0150_01_s_2012_3				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry is trimmed and levee slope is accessible.					

Photo 1 of 1 : SP\_2016\_RD0150\_15\_3\_20160318\_00006.jpg



View of the elderberry on the landside toe of the levee. The elderberry doesn't block visibility and it is trimmed up 5 feet above the slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.44	Rating **	M	Issue No.	2
LM End	0.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.328555 °	38.328020 °
				-121.577544 °	-121.576693 °
DWR ID	DWR_RD0150_01_s_2016_2				
Comment Code					
Inspector Comment					
2013 - Old toe repair unraveling. Bridge at upstream end of site. 2015: No observed changes. [2015 Site ID: STR_28-4_R]					

Photo 1 of 2 : SP\_2016\_RD0150\_15\_2\_20160219\_00001.jpg



USACE 2013 Photo #1

Photo 2 of 2 : SP\_2016\_RD0150\_15\_2\_20160219\_00002.jpg



USACE 2013 Photo #2

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2016 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Right	7.81
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/15/2016 - 3/15/2016			
DWR Inspector	Pavel Kazi			
Accompanied By				

**Summer & Winter Inspections**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.14	Rating **	A/W	Issue No.	5
LM End	4.77	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.329782 °	38.374641 °
				-121.574769 °	-121.524730 °
DWR ID	DWR_RD0150_02_s_2012_5				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_5\_20160318\_00113.jpg



View of the re-vegetation sign.

LM Start	0.16	Rating **	U	Issue No.	49
LM End	0.16	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.330047 °	38.330047 °
				-121.574538 °	-121.574538 °
DWR ID	DWR_RD0150_02_s_2012_49				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_49\_20160219\_00026.jpg



Building located on waterside of levee at LM 0.16

LM Start	0.17	Rating **	M	Issue No.	990
LM End	0.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.330173 °	38.330576 °
				-121.574490 °	-121.574093 °
DWR ID	DWR_RD0150_02_s_2012_990				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_990\_20160219\_00054.jpg



Landscaping was found on the landside of the levee looking upstream.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.23	Rating **	M	Issue No.	1008
LM End	0.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.330888 °	38.330888 °
				-121.573769 °	-121.573769 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42700					
DS_ID:22416					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Appears abandoned and if so should be done so properly.- Dense vegetation on waterside.- Seems abandoned pipe and pump.					
FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee, 2.8 feet below the crown. Pump on landside. Concrete box on landside. O&M Manual SAC 112, March 1957.					
FS Date: 8/27/2013					

LM Start	<b>0.23</b>	Rating **	M	Issue No.	<b>1008 (cont)</b>
LM End	<b>0.23</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_42700\_34247.jpg



WS view: No pipe found on waterside slope. Dense vegetation on waterside.

Photo 2 of 2 : UCIP\_SP\_2016\_42700\_34246.jpg



LS view: abandoned pipe and pump on landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.25	Rating **	U	Issue No.	4
LM End	0.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331035 °	38.331035 °
				-121.573502 °	-121.573502 °
DWR ID	DWR_RD0150_02_s_2012_4				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_4\_20160219\_00001.jpg



Landscaping on landward slope of the levee.

LM Start	0.34	Rating **	M	Issue No.	9
LM End	0.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.332156 °	38.332156 °
				-121.572580 °	-121.572580 °
DWR ID	DWR_RD0150_02_s_2012_9				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_9\_20160219\_00005.jpg



Fence was found on the landside of the levee looking upstream.

LM Start	0.38	Rating **	M	Issue No.	13
LM End	0.38	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.332647 °	38.332647 °
				-121.572140 °	-121.572140 °
DWR ID	DWR_RD0150_02_s_2012_13				
Comment Code					
ST : Stairway					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_13\_20160219\_00008.jpg



A stairway was found on the waterside of the levee. The picture was taken from the crown looking upstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.39	Rating **	M	Issue No.	1003
LM End	0.39	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.332670 °	38.332670 °
				-121.572132 °	-121.572132 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20268					
DS_ID:22417					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - Water leaks from pressure breaker.- Distribution box at the landward toe not found/visible.- Service pole on LS toe.					
FIELD_STRUCT_DESC: 4-inch steel pipe joined to 6-inch steel pipe and the 6-inch pppe joined to 10-inch steel pipe through the levee, 5.8 feet below the crown. 1.5-inch conduit through the levee, 3 feet below the crown. Pump and gate valve on the waterward slope. (Runyon).					
FS Date: 8/27/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_20268\_34244.jpg



WS view: walkway/stairs, pump on levee slope.

LM Start	<b>0.39</b>	Rating **	M	Issue No.	<b>1003 (cont)</b>
LM End	<b>0.39</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_20268\_34243.jpg



WS view: pump, electric control box, electric conduit on concrete pad.  
Water leaks from pressure breaker.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.39	Rating **	M	Issue No.	6
LM End	0.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.332717 °	38.332717 °
				-121.572083 °	-121.572083 °
DWR ID	DWR_RD0150_02_s_2012_6				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

LM Start	<b>0.39</b>	Rating **	M	Issue No.	<b>6 (cont)</b>
LM End	<b>0.39</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2016\_RD0150\_16\_6\_20160219\_00002.jpg



Updated photo of the slope instability on the waterside of the levee looking upstream during spring 2014 inspection.

Photo 2 of 2 : SP\_2016\_RD0150\_16\_6\_20160219\_00003.jpg



Slope instability was found on the waterside of the levee looking upstream.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.46	Rating **	M	Issue No.	1002
LM End	0.46	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.333527 °	38.333527 °
				-121.571274 °	-121.571274 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20267					
DS_ID:22418					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - Abandoned pipe and pump.- Needs proper abandonment.					
FIELD_STRUCT_DESC: 6-inch steel pipe and 1-inch conduit through the levee, 3.5 feet below crown, pump and gate valve on the waterward slope. Electric box on waterside slope. O&M Manual SAC 112, March 1957.					
FS Date: 8/27/2013					

LM Start	<b>0.46</b>	Rating **	M	Issue No.	<b>1002 (cont)</b>
LM End	<b>0.46</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_20267\_34239.jpg



WS view: steel pipe and pump on levee slope. Dense vegetation on waterside.

Photo 2 of 2 : UCIP\_SP\_2016\_20267\_34238.jpg



WS view: steel pipe and pump on concrete pad. Seems abandoned.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.48	Rating **	M	Issue No.	1004
LM End	0.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.333754 °	38.333754 °
				-121.571018 °	-121.571018 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:20284  
DS\_ID:22419  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Needs proper abandonment.  
FIELD\_STRUCT\_DESC: 8-inch steel pipe through the levee, 5.7 feet below the crown. Power line on landside.(Mrs. J. Olson) O&M Manual SAC 112, March 1957.  
FS Date: 8/27/2013

LM Start	<b>0.48</b>	Rating **	M	Issue No.	<b>1004 (cont)</b>
LM End	<b>0.48</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_20284\_34265.jpg



WS view: abandoned pump on levee slope. Dense vegetation on waterside.

Photo 2 of 2 : UCIP\_SP\_2016\_20284\_34264.jpg



LS view: exposed steel pipe and power pole on levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.56	Rating **	N	Issue No.	57
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.334525 °	38.334525 °
				-121.570025 °	-121.570025 °
DWR ID	DWR_RD0150_02_s_2016_57				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_57\_20160318\_00114.jpg



View of tree stumps on the waterside shoulder of the levee looking downstream.

LM Start	0.70	Rating **	M	Issue No.	1005
LM End	0.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.336183 °	38.336183 °
				-121.568383 °	-121.568383 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20303 DS_ID:22421 EP_NO: 16109 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee.- concrete standpipe inside water filtration plant on landside toe.- air pressure tank on waterside steel deck. FIELD_STRUCT_DESC: 16 inch steel pipe and 2-inch conduit through the levee, 6.2 feet below the crown, slant pump on steel platform on the waterward slope. 4-inch abandoned pipe on the waterside slope. Concrete stand pipe and power pole at landside toe. (App. No. 18258, Wilson 2007) O&M Manual SAC 112, March 1957. FS Date: 8/27/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_20303\_34287.jpg



WS view: slant pump on steel deck, 4-inch pipe (left) and 10-inch pipe (right) on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.70	Rating **	M	Issue No.	1005 (cont)	
LM End	0.70	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.336183 °		38.336183 °
				-121.568383 °		-121.568383 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20303 DS_ID:22421 EP_NO: 16109 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee.- concrete standpipe inside water filtration plant on landside toe.- air pressure tank on waterside steel deck. FIELD_STRUCT_DESC: 16 inch steel pipe and 2-inch conduit through the levee, 6.2 feet below the crown, slant pump on steel platform on the waterward slope. 4-inch abandoned pipe on the waterside slope. Concrete stand pipe and power pole at landside toe. (App. No. 18258, Wilson 2007) O&M Manual SAC 112, March 1957. FS Date: 8/27/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_20303\_34286.jpg



WS view: steel pipes and leaky slant pump on steel deck.

LM Start	0.71	Rating **	M	Issue No.	10
LM End	0.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.336228 °	38.336228 °
				-121.568332 °	-121.568332 °
DWR ID	DWR_RD0150_02_s_2013_10				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_10\_20160219\_00006.jpg



Debris was found on the waterside slope of the levee looking downstream during Spring 2013 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	0.71	Rating **	M	Issue No.	59
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.336291 °	38.336291 °
				-121.568260 °	-121.568260 °
DWR ID	DWR_RD0150_02_s _ 2016_59				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Damaged tree roots and trunks appear to damage landside slope of the levee.					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_59\_20160318\_00115.jpg



View of tree trunks and roots on the landside of the levee looking upstream.

LM Start	0.97	Rating **	M	Issue No.	12
LM End	0.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.339035 °	38.339035 °
				-121.565145 °	-121.565145 °
DWR ID	DWR_RD0150_02_s _ 2012_12				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_12\_20160219\_00007.jpg



Overgrown trees were obstructing the landside slope of the levee looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	1.14	Rating **	N	Issue No.	8
LM End	1.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.340864 °	38.340864 °
				-121.562915 °	-121.562915 °
DWR ID	DWR_RD0150_02_s_2012_8				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_8\_20160219\_00004.jpg



View of a tree stump on the landward slope.

LM Start	1.26	Rating **	M	Issue No.	92
LM End	1.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.342229 °	38.342229 °
				-121.561694 °	-121.561694 °
DWR ID	DWR_RD0150_02_s_2012_92				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	1.32	Rating **	U	Issue No.	91
LM End	1.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.342969 °	38.343252 °
				-121.561196 °	-121.560794 °
DWR ID	DWR_RD0150_02_s_2012_91				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0150\_16\_91\_20160219\_00044.jpg



Landscaping was obstructing the view of the landside slope of the levee looking downstream. This picture was taken during spring 2013 inspection.

LM Start	<b>1.32</b>	Rating **	U	Issue No.	<b>91 (cont)</b>
LM End	<b>1.34</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP\_2016\_RD0150\_16\_91\_20160219\_00045.jpg



Landscaping was found landside of the levee looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	1.34	Rating **	M	Issue No.	997
LM End	1.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.343136 °	38.343136 °
				-121.560868 °	-121.560868 °
DWR ID					

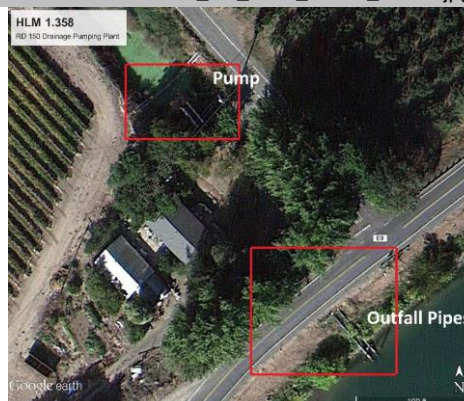
**Comment Code**

**Inspector Comment**

FS\_ID:20727  
DS\_ID:22393  
EP\_NO: 18221  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside. Pumps on piling structure with shed in drainage ditch. Siphon breaker cover missing. Needs to fix it.  
FIELD\_STRUCT\_DESC: 1 of 2: 30-inch pipe (of 30-inch and 24-inch steel pipes), 7.0 feet below the crown replaced 36-inch and 24-inch pipes through the levee, 9.0 and 8.0 feet below the crown respectively. Flap gates on the waterward ends. Siphon breakers on the waterward slope. Pumps on piling structure with shed in drainage ditch. (App. No. 18221 - R.D. No. 150 drainage plant). O&M Manual SAC 112, March 1957.  
FS Date: 8/27/2013

LM Start	<b>1.34</b>	Rating **	M	Issue No.	<b>997 (cont)</b>
LM End	<b>1.34</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_20727\_34889.jpg



Bird's eye view: outfall pipes (bottom) and pump structure in drainage ditch (top)

Photo 2 of 2 : UCIP\_SP\_2016\_20727\_34888.jpg



WS view: siphon breaker in pipe riser on levee shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	1.56	Rating **	M	Issue No.	53
LM End	1.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.344881 °	38.344881 °
				-121.557524 °	-121.557524 °
DWR ID	DWR_RD0150_02_f_2015_53				
Comment Code					
PI : Pipe					
Inspector Comment					
Abandoned pipes were found on the waterside slope.					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_53\_20160219\_00028.jpg



Abandon pipes and debris was found on the waterside of the levee.

LM Start	1.73	Rating **	M	Issue No.	48
LM End	1.73	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.345583 °	38.345583 °
				-121.554507 °	-121.554507 °
DWR ID	DWR_RD0150_02_f_2014_48				
Comment Code					
PO : Pole					
Inspector Comment					
A pole was found on the waterside slope of the levee. Most probably is connected to a pump.					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_48\_20160219\_00025.jpg



A pole/pipe was found on the waterside slope of the levee looking upstream.

LM Start	1.89	Rating **	M	Issue No.	50
LM End	1.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.346323 °	38.346323 °
				-121.551568 °	-121.551568 °
DWR ID	DWR_RD0150_02_f_2014_50				
Comment Code					
PI : Pipe					
Inspector Comment					
An abandoned pipe was found on the waterside of the levee.					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_50\_20160219\_00027.jpg



A pipe was found on the waterside toe of the levee looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	1.91	Rating **	M	Issue No.	994
LM End	1.91	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.346448 °	38.346448 °
				-121.551293 °	-121.551293 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20348					
DS_ID:22395					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - Operating during inspection.- Overhead powerline crossing- CMP riser with siphon breaker needs cleaning.					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 4.0 feet below the crown; pump on the piling in the stream. Power poles on both slopes. Ramp on the landward slope. Siphon breaker on the landward shoulder. (T. Wilson). O&M Manual SAC 112, March 1957.					
FS Date: 8/27/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_20348\_34371.jpg



WS view: service pole, pipe &amp; pump on piling structure in the stream.

LM Start	<b>1.91</b>	Rating **	M	Issue No.	<b>994 (cont)</b>
LM End	<b>1.91</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_20348\_34370.jpg



WS view: pipe &amp; pump on piling structure in the stream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	2.14	Rating **	M	Issue No.	998
LM End	2.14	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.347032 °	38.347032 °
				-121.547159 °	-121.547159 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20731					
DS_ID:22396					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - Operating during inspection. Leaky join at the concrete box.- Power overhead crossing. Power pole at waterside shoulder, and landside toe.					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown, slant pump on the waterward slope. Power pole on the waterward shoulder. (Wilcox) O&M Manual SAC 112, March 1957.					
FS Date: 8/27/2013					

LM Start	<b>2.14</b>	Rating **	M	Issue No.	<b>998 (cont)</b>
LM End	<b>2.14</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_20731\_34902.jpg



WS view: slant pump on steel frame support and exposed pipe on levee slope.

Photo 2 of 2 : UCIP\_SP\_2016\_20731\_34901.jpg



LS view: concrete distribution box on levee toe and exposed steel pipe on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	2.28	Rating **	M	Issue No.	88
LM End	2.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.347355 °	38.347361 °
				-121.544628 °	-121.544280 °
DWR ID	DWR_RD0150_02_s _ 2012_88				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_88\_20160219\_00043.jpg



Landscaping was found on the landside of the levee. The picture was taken from the crown looking upstream.

LM Start	2.70	Rating **	M	Issue No.	23
LM End	2.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.349542 °	38.349542 °
				-121.537451 °	-121.537451 °
DWR ID	DWR_RD0150_02_s _ 2012_23				
Comment Code					
TA : Tank					
Inspector Comment					
Tank was found within the 10 feet landside easement.					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_23\_20160219\_00013.jpg



A tank was found on the landside toe of the levee looking upstream.

LM Start	2.75	Rating **	N	Issue No.	14
LM End	2.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.350041 °	38.350041 °
				-121.536853 °	-121.536853 °
DWR ID	DWR_RD0150_02_s _ 2012_14				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_14\_20160219\_00009.jpg



View of a tree stump on the landward slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	2.84	Rating **	U	Issue No.	999
LM End	2.84	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.350911 °	38.350911 °
				-121.535653 °	-121.535653 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20732					
DS_ID:22401					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: - 2" conduit on WS- depression on LS slope- new replacement pipe on both sides- old pipe, pump and piling structure abandoned.					
FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 5.8 feet below the crown; pump on piling in stream. A 2-inch electric conduit on waterside. Service pole and concrete standpipe at the toe of the landward slope. (A. E. Green) O&M Manual SAC 112, March 1957.					
FS Date: 8/27/2013					

LM Start	<b>2.84</b>	Rating **	U	Issue No.	<b>999 (cont)</b>
LM End	<b>2.84</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_20732\_34906.jpg



WS view: walkway steps, pipe, and pump on levee slope.

Photo 2 of 2 : UCIP\_SP\_2016\_20732\_34905.jpg



WS view: air vent on steel pipe on levee slope. Electric conduit over pipe (right)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	2.97	Rating **	U	Issue No.	85
LM End	3.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.352372 °	38.352802 °
				-121.534127 °	-121.533638 °
DWR ID	DWR_RD0150_02_s _ 2012_85				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_85\_20160219\_00042.jpg



Landscaping providing a screen for a residence on the landside of levee.

LM Start	3.24	Rating **	M	Issue No.	961
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s _ 2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

Photo 1 of 5 : SP\_2016\_RD0150\_16\_961\_20160219\_00047.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s_2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

LM Start	<b>3.24</b>	Rating **	M	Issue No.	<b>961 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 5 : SP\_2016\_RD0150\_16\_961\_20160219\_00048.jpg



View of the erosion on the waterside slope of the levee near the pipe looking downstream. This picture was taken during the fall 2013 inspection.

Photo 3 of 5 : SP\_2016\_RD0150\_16\_961\_20160219\_00049.jpg



View of the erosion on the waterside slope of the levee looking upstream during spring 2013 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	3.24	Rating **	M	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s _ 2012_961				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

LM Start	<b>3.24</b>	Rating **	M	Issue No.	<b>961 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 5 : SP\_2016\_RD0150\_16\_961\_20160219\_00050.jpg



View of erosion and damaged pipe and abandoned boat on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

Photo 5 of 5 : SP\_2016\_RD0150\_16\_961\_20160219\_00051.jpg



View of the erosion site, and broken pump support along with a boat on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2011 inspection.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	3.24	Rating **	M	Issue No.	1000
LM End	3.24	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.355360 °	38.355360 °
				-121.530838 °	-121.530838 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20736 DS_ID:22402 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe sleeved through 12" steel pipe.- main pipe bifurcates into two pipes on LS slope and connected to standpipe and concrete box.- 2" electric conduit on WS and power pole on LS.- needs filling into gap between 10" and 12" steel pipes on LS. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 4.0 feet below the crown; pump on piling in stream. Concrete standpipe and concrete distribution box at the toe of the landward slope. (A. Green) O&M Manual SAC 112, March 1957. FS Date: 8/30/2013					

LM Start	<b>3.24</b>	Rating **	M	Issue No.	<b>1000 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_20736\_34917.jpg



WS view: pipe, conduit and pump on levee slope.

Photo 2 of 2 : UCIP\_SP\_2016\_20736\_34916.jpg



WS view: steel pipe and GI conduit on levee slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

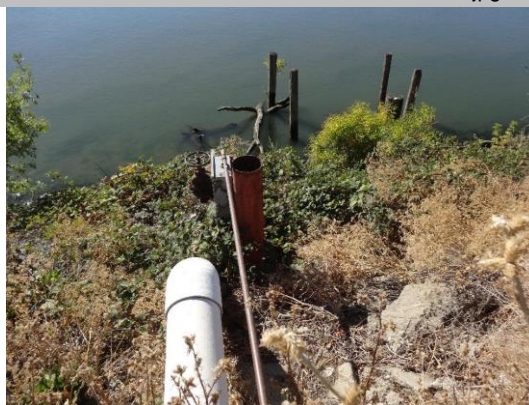
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	3.30	Rating **	M	Issue No.	17
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.355979 °	38.355979 °
				-121.530288 °	-121.530288 °
DWR ID	DWR_RD0150_02_s_2012_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry is partially blocking the visibility.					

No Photos

LM Start	3.50	Rating **	M	Issue No.	992
LM End	3.50	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358094 °	38.358094 °
				-121.527619 °	-121.527619 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19846 DS_ID:22403 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 8" pvc pipe sleeved into 12" steel pipe.- needs filling/grouting in gas between 8" pvc pipe and 12" steel pipe on WS.- 1.5" electric conduit on WS- 10" steel pipe extended to 8" pvc pipe on landside levee toe. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 3.0 feet below the crown, pump and gate valve on the waterward slope. (R & J Pylman). O&M Manual SAC 112, March 1957. FS Date: 8/30/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_19846\_33727.jpg



WS view: pipe, pump, and conduit on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	3.50	Rating **	M	Issue No.	992 (cont)	
LM End	3.50	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.358094 °		38.358094 °
				-121.527619 °		-121.527619 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19846 DS_ID:22403 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 8" pvc pipe sleeved into 12" steel pipe.- needs filling/grouting in gas between 8" pvc pipe and 12" steel pipe on WS.- 1.5" electric conduit on WS- 10" steel pipe extended to 8" pvc pipe on landside levee toe. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 3.0 feet below the crown, pump and gate valve on the waterward slope. (R & J Pylman). O&M Manual SAC 112, March 1957. FS Date: 8/30/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_19846\_33726.jpg



WS view: steel conduit (right); 8" pvc pipe sleeved into 12" steel pipe.

LM Start	3.51	Rating **	M	Issue No.	15
LM End	3.51	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.358152 °	38.358152 °
				-121.527579 °	-121.527579 °
DWR ID	DWR_RD0150_02_s_2012_15				
Comment Code					
PI : Pipe					
Inspector Comment					
PVC pipe is sleeving through an old steel pipe. The steel pipe appears to be fine for now, but we should keep an eye on it.					

Photo 1 of 2 : SP\_2016\_RD0150\_16\_15\_20160219\_00010.jpg



A PVC pipe was used to pump the water from waterside of the levee. It appeared that the PVC pipe was penetrating through a corroded steel casing through the levee crown. The picture was taken from the crown of the levee looking upstream during spring 2013 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	3.51	Rating **	M	Issue No.	15 (cont)	
LM End	3.51	Issue Type +	En	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.358152 °		38.358152 °
				-121.527579 °		-121.527579 °
DWR ID	DWR_RD0150_02_s_2012_15					
Comment Code						
PI : Pipe						
Inspector Comment						
PVC pipe is sleeving through an old steel pipe. The steel pipe appears to be fine for now, but we should keep an eye on it.						

Photo 2 of 2 : SP\_2016\_RD0150\_16\_15\_20160219\_00011.jpg



A PVC pipe was used under the levee crown for irrigation purpose. The picture was taken from the crown looking downstream.

LM Start	3.51	Rating **	M	Issue No.	993
LM End	3.51	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358131 °	38.358131 °
				-121.527540 °	-121.527540 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19848					
DS_ID:22404					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - needs proper abandonment.					
FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe on landward slope. 1-inch steel conduit on waterward slope found.					
FS Date: 8/30/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_19848\_33734.jpg



WS view: abandoned 1-inch conduit on levee slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	3.51	Rating **	M	Issue No.	993 (cont)	
LM End	3.51	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.358131 °		38.358131 °
				-121.527540 °		-121.527540 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19848						
DS_ID:22404						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - needs proper abandonment.						
FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe on landward						
slope. 1-inch steel conduit on waterward slope found.						
FS Date: 8/30/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_19848\_33733.jpg



LS view: exposed 4-inch steel pipe on levee slope.

LM Start	3.54	Rating **	U	Issue No.	82
LM End	3.67	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.358565 °	38.359729 °
				-121.527153 °	-121.525345 °
DWR ID	DWR_RD0150_02_s_2012_82				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_82\_20160219\_00041.jpg



Landscaping was blocking the visibility on the landside of the levee looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	3.84	Rating **	U	Issue No.	80
LM End	3.86	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.361419 °	38.361752 °
				-121.523225 °	-121.522974 °
DWR ID	DWR_RD0150_02_s _ 2012_80				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_80\_20160219\_00040.jpg



Landscaping in front of a residence on landside of levee from LM 3.90 to LM 3.93. The levee in this location is greater than 100' wide.

LM Start	3.88	Rating **	M	Issue No.	33
LM End	3.88	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.361970 °	38.361970 °
				-121.522777 °	-121.522777 °
DWR ID	DWR_RD0150_02_s _ 2012_33				
Comment Code					
ST : Stairway					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_33\_20160219\_00019.jpg



A stairway was found on the waterside slope of the levee.

LM Start	3.91	Rating **	M	Issue No.	61
LM End	3.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.362357 °	38.362357 °
				-121.522582 °	-121.522582 °
DWR ID	DWR_RD0150_02_s _ 2016_61				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_61\_20160318\_00116.jpg



View of prunings on the landside of the levee.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	4.08	Rating **	M	Issue No.	20
LM End	4.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.364854 °	38.365104 °
				-121.522378 °	-121.522365 °
DWR ID	DWR_RD0150_02_s_2012_20				
Comment Code					
BU : Building					
Inspector Comment					
3' retaining wall at the landward shoulder.					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_20\_20160219\_00012.jpg



View of a retaining wall on the landward slope looking upstream.

LM Start	4.10	Rating **	M	Issue No.	953	
LM End	4.10	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.365162 °		38.365162 °
				-121.522365 °		-121.522365 °
DWR ID	DWR_RD0150_02_s_2012_953					
Comment Code						
V6 : Landscaping						
Inspector Comment						

Photo 1 of 1 : SP\_2016\_RD0150\_16\_953\_20160219\_00046.jpg



View of cacti on the landside of the levee looking from the crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	4.17	Rating **	M	Issue No.	1009
LM End	4.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.366149 °	38.366149 °
				-121.522352 °	-121.522352 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42702 DS_ID:22407 EP_NO: 13505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- no pipe and structure found on landside.- siphon breaker in 24" CMP riser on waterside.- control box and electric conduit on waterside slope. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 5.0 feet below the crown; slanted pump on the waterside slope. Siphon breaker in the waterside slope in corrugated metal pipe riser. A control box and electric conduit on waterside slope. (Permit No. 13505 - Clara Herringer). O&M Manual SAC 112, March 1957. FS Date: 8/30/2013					

LM Start	<b>4.17</b>	Rating **	M	Issue No.	<b>1009 (cont)</b>
LM End	<b>4.17</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_42702\_33782.jpg



WS view: slanted pump on levee slope.

Photo 2 of 2 : UCIP\_SP\_2016\_42702\_33781.jpg



WS view: exposed 14-inch steel pipe on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	4.26	Rating **	U	Issue No.	24
LM End	4.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.367442 °	38.367740 °
				-121.522427 °	-121.522495 °
DWR ID	DWR_RD0150_02_s_2012_24				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_24\_20160219\_00014.jpg



Landscaping (Oleander) on landward slope from 4.33 to 4.35

LM Start	4.30	Rating **	U	Issue No.	79
LM End	4.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.368036 °	38.368540 °
				-121.522611 °	-121.522729 °
DWR ID	DWR_RD0150_02_s_2012_79				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_79\_20160219\_00039.jpg



Trees were obstructing the views on the landside slope of the levee looking downstream.

LM Start	4.50	Rating **	A/W	Issue No.	1
LM End	4.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.370928 °	38.371909 °
				-121.523069 °	-121.523316 °
DWR ID	DWR_RD0150_02_s_2016_1				
Comment Code					
Inspector Comment					
1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011 - Failing rock repair. Slumping of the lower bank. Minor new erosion. 2013 - Tree at upstream end has exposed roots. Some new erosion. 2015: No observed changes. [2015 Site ID: SAC_38-5_R]					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	4.69	Rating **	M	Issue No.	28
LM End	4.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.373485 °	38.373485 °
				-121.523963 °	-121.523963 °
DWR ID	DWR_RD0150_02_s_2012_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

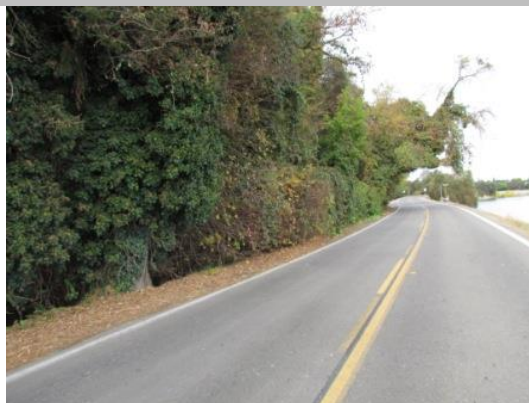
Photo 1 of 1 : SP\_2016\_RD0150\_16\_28\_20160219\_00016.jpg



Century plant on waterward slope at LM 4.76

LM Start	4.70	Rating **	U	Issue No.	76
LM End	4.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.373688 °	38.373970 °
				-121.524280 °	-121.524403 °
DWR ID	DWR_RD0150_02_s_2012_76				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_76\_20160219\_00038.jpg



Trees were obstructing the view of the landside slope of the levee looking upstream.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	4.85	Rating **	M	Issue No.	69
LM End	4.85	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.375731 °	38.375731 °
				-121.525245 °	-121.525245 °
DWR ID	DWR_RD0150_02_f_2013_69				
Comment Code					
PI : Pipe					
Inspector Comment					
The pipe cover is not a water tight connection. During high water, water may leak through the pipe and get into the landside.					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_69\_20160219\_00036.jpg



The pipe cover doesn't appear to be water tight on the waterside slope of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2013 inspection.

LM Start	5.06	Rating **	A/W	Issue No.	40
LM End	7.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.378674 °	38.414029 °
				-121.525423 °	-121.522991 °
DWR ID	DWR_RD0150_02_s_2012_40				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	5.06	Rating **	M	Issue No.	30
LM End	5.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.378715 °	38.379052 °
				-121.525458 °	-121.525341 °
DWR ID	DWR_RD0150_02_s_2012_30				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_30\_20160219\_00017.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

LM Start	5.09	Rating **	M	Issue No.	75
LM End	5.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.379054 °	38.379769 °
				-121.525341 °	-121.525024 °
DWR ID	DWR_RD0150_02_s_2012_75				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_75\_20160219\_00037.jpg



View of landscaping along the landward shoulder and slope looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	5.24	Rating **	M	Issue No.	991
LM End	5.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.381079 °	38.381079 °
				-121.524166 °	-121.524166 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20740 DS_ID:22410 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 2" electric conduit and gate valve on WS.- abandoned old pump not removed from WS- working during field survey FIELD_STRUCT_DESC: 12-inch pipe and 2-inch electric conduit through the levee, 3.0 feet below the crown. Service pole and standpipe at the toe of the landward slope. (C. Sakai) O&M Manual SAC 112, March 1957. FS Date: 8/30/2013					

LM Start	<b>5.24</b>	Rating **	M	Issue No.	<b>991 (cont)</b>
LM End	<b>5.24</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_20740\_34941.jpg



WS view: pipe, walkway, slant pump &amp; pump platform on stream bank.

Photo 2 of 2 : UCIP\_SP\_2016\_20740\_34940.jpg



WS view: pipe, slant pump &amp; pump platform on stream bank.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	5.24	Rating **	M	Issue No.	975
LM End	5.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.381126 °	38.381126 °
				-121.524207 °	-121.524207 °
DWR ID	DWR_RD0150_02_s_2013_975				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Depression in the waterward slope at the shoulder over an irrigation pipe.					

Photo 1 of 2 : SP\_2016\_RD0150\_16\_975\_20160219\_00052.jpg



View of minor slope instability on the waterside slope of the levee looking downstream during fall 2013 inspection.

LM Start	<b>5.24</b>	Rating **	M	Issue No.	<b>975 (cont)</b>
LM End	<b>5.24</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2016\_RD0150\_16\_975\_20160219\_00053.jpg



View of a minor depression along the landward slope of the levee over a pipe penetration looking downstream.

LM Start	5.31	Rating **	C	Issue No.	47
LM End	5.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.381894 °	38.381894 °
				-121.523527 °	-121.523527 °
DWR ID	DWR_RD0150_02_f_2015_47				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree trunk on waterside toe might damage the levee during high water.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	5.33	Rating **	M	Issue No.	54
LM End	5.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.382072 °	38.382072 °
				-121.523220 °	-121.523220 °
DWR ID	DWR_RD0150_02_f_2014_54				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_54\_20160219\_00029.jpg



View of a slope instability on the waterside of the levee looking towards the toe.

LM Start	5.39	Rating **	M	Issue No.	74
LM End	5.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.382675 °	38.382793 °
				-121.522367 °	-121.522164 °
DWR ID	DWR_RD0150_02_s_2012_74				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	6.13	Rating **	M	Issue No.	995
LM End	6.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.391099 °	38.391099 °
				-121.514913 °	-121.514913 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:20748  
DS\_ID:22412  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: - slope erosion due leaky siphon breaker at CMP riser- leaky pipe and pump- service pole on LS- 2" electric conduit on WS  
FIELD\_STRUCT\_DESC: 10-inch steel pipe and an electric conduit through the levee, 4.8 feet below the crown. Slant pump on the waterward slope. Siphon breaker in corrugated metal pipe riser on the landward shoulder. Slope erosion on landside of levee at siphon breaker. (Ed. Boyles) O&M Manual SAC 112, March 1957.  
FS Date: 8/30/2013

LM Start	<b>6.13</b>	Rating **	M	Issue No.	<b>995 (cont)</b>
LM End	<b>6.13</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_20748\_34967.jpg



WS view: steel pipe and slant pump on levee slope.

Photo 2 of 2 : UCIP\_SP\_2016\_20748\_34966.jpg



WS view: leaky steel pipe and slant pump on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	6.30	Rating **	M	Issue No.	27
LM End	6.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.393655 °	38.393655 °
				-121.514654 °	-121.514654 °
DWR ID	DWR_RD0150_02_s _ 2012_27				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Century plant on the landward slope.					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_27\_20160219\_00015.jpg



Century plant was found on the landside of the levee looking upstream.

LM Start	6.32	Rating **	M	Issue No.	29
LM End	6.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.393850 °	38.393850 °
				-121.514629 °	-121.514629 °
DWR ID	DWR_RD0150_02_s _ 2012_29				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	6.36	Rating **	U	Issue No.	31
LM End	6.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.394416 °	38.394416 °
				-121.514590 °	-121.514590 °
DWR ID	DWR_RD0150_02_s _ 2012_31				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_31\_20160219\_00018.jpg



Trees need to be trimmed on the landside of the levee looking upstream.

<b>* Location</b>		<b>** Rating</b>		<b>+ Issue Type</b>	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	6.39	Rating **	M	Issue No.	65
LM End	6.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.394935 °	38.395931 °
				-121.514597 °	-121.514604 °
DWR ID	DWR_RD0150_02_s_2012_65				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_65\_20160219\_00035.jpg



View of landscaping along the waterward shoulder and slope looking downstream.

LM Start	6.42	Rating **	M	Issue No.	34
LM End	6.42	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.395340 °	38.395340 °
				-121.514528 °	-121.514528 °
DWR ID	DWR_RD0150_02_s_2012_34				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_34\_20160219\_00020.jpg



Landscaping was found on the waterside of the levee looking upstream.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	6.48	Rating **	M	Issue No.	42
LM End	6.48	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.396235 °	38.396235 °
				-121.514547 °	-121.514547 °
DWR ID	DWR_RD0150_02_s_2012_42				
Comment Code					
ST : Stairway					
Inspector Comment					
Unpermitted stairway.					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_42\_20160219\_00022.jpg



A stairway was found on the waterside slope of the levee looking upstream.

LM Start	6.50	Rating **	M	Issue No.	996
LM End	6.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.396449 °	38.396449 °
				-121.514516 °	-121.514516 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20754 DS_ID:22413 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope.May need proper abandonment. FIELD_STRUCT_DESC: Only an abandoned and dismantled CMP riser with gate valve found on waterside levee slope. FS Date: 8/30/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_20754\_34985.jpg



WS view: an abandoned and dismantled CMP riser on WS levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	6.50	Rating **	M	Issue No.	996 (cont)
LM End	6.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.396449 °	38.396449 °
				-121.514516 °	-121.514516 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20754 DS_ID:22413 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope.May need proper abandonment. FIELD_STRUCT_DESC: Only an abandoned and dismantled CMP riser with gate valve found on waterside levee slope. FS Date: 8/30/2013					

Photo 2 of 2 : UCIP\_SP\_2016\_20754\_34984.jpg



WS view: closer view of an abandoned and dismantled CMP riser on WS levee slope.

LM Start	6.50	Rating **	U	Issue No.	55
LM End	6.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.396518 °	38.396518 °
				-121.514530 °	-121.514530 °
DWR ID	DWR_RD0150_02_f_2014_55				
Comment Code					
PI : Pipe					
Inspector Comment					
The pipe gate needs to be covered on the waterside toe of the levee.					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_55\_20160219\_00030.jpg



An open pipe valve was found without a cover on the waterside toe of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	6.56	Rating **	U	Issue No.	64
LM End	6.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.397411 °	38.398033 °
				-121.514681 °	-121.514753 °
DWR ID	DWR_RD0150_02_s_2012_64				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_64\_20160219\_00034.jpg



Landscaping providing a screen for a residence on landside of levee from LM 6.68 to LM 6.72

LM Start	6.57	Rating **	M	Issue No.	1007
LM End	6.57	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.397451 °	38.397451 °
				-121.514601 °	-121.514601 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41720 DS_ID:22425 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to clear dense vegetation on WS.- water filtration plant on LS levee toe.- Slide gate on CMP riser on WS. FIELD_STRUCT_DESC: 8-inch pipe through the levee, 12.0 feet below the crown, gate valve in CM riser on the waterward slope. Pump at the landward toe. (Joe Gomez) FS Date: 8/30/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_41720\_34081.jpg



WS view: CMP riser with gate valve on levee slope. Dense vegetation on levee slope and stream bank.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	6.69	Rating **	M	Issue No.	1010
LM End	6.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.399167 °	38.399167 °
				-121.514793 °	-121.514793 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41646 DS_ID:22426 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - abandoned very old gate valve also found on WS. Rest of pipe should be evaluated due to its age. FIELD_STRUCT_DESC: 9-inch steel irrigation pipe 9.7 feet below the crown, gate valve and pump house on the landside (LS). (Permit No. 8551, 1973 - Souza). O&M Manual SAC 112, March 1957. FS Date: 8/30/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_41646\_34102.jpg



WS view: inlet steel pipe on stream bank.

LM Start	<b>6.69</b>	Rating **	M	Issue No.	<b>1010 (cont)</b>
LM End	<b>6.69</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_SP\_2016\_41646\_34101.jpg



WS view: An abandoned old gate valve on inlet steel pipe on stream bank.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	6.72	Rating **	M	Issue No.	38
LM End	6.72	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.399623 °	38.399623 °
				-121.514877 °	-121.514877 °
DWR ID	DWR_RD0150_02_s_2013_38				
Comment Code					
ST : Stairway					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_38\_20160219\_00021.jpg



A stairway was found on the waterside slope of the levee looking upstream during spring 2013 inspection.

LM Start	6.80	Rating **	U	Issue No.	1006
LM End	6.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.400835 °	38.400835 °
				-121.515066 °	-121.515066 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42903					
DS_ID:22427					
EP_NO: 1703					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: - significant erosion along pipe alignment on LS slope.- pump on concrete pad- service pole on LS slope.					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 4.5 feet below the crown, pump and gate valve on the waterward slope. Service pole and standpipe on the landward shoulder. (App. No. 1703 - M. Silva).					
FS Date: 8/30/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_42903\_35002.jpg



WS view: steel pipe, electric conduit, gate valve, and pump on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			





**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	7.00	Rating **	U	Issue No.	1001
LM End	7.00	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.403513 °	38.403513 °
				-121.516162 °	-121.516162 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20203 DS_ID:22429 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - soil erosion along pipe alignment on LS slope.- needs more investigation and mitigation for soil erosion. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee 10.0 feet below the crown, pump on concrete slab and slide gate in CMP riser on the waterward slope. Pipe through the levee section encased in reinforced concrete. A concrete standpipe on landside toe. (A. Monice). FS Date: 8/30/2013					

LM Start	<b>7.00</b>	Rating **	U	Issue No.	<b>1001 (cont)</b>
LM End	<b>7.00</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_20203\_34162.jpg



WS view: CMP riser with slide gate and pump (right) on levee slope.

Photo 2 of 2 : UCIP\_SP\_2016\_20203\_34161.jpg



WS view: steel intake pipe and pump on levee slope. Dense vegetation on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	7.01	Rating **	M	Issue No.	58
LM End	7.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403631 °	38.403631 °
				-121.516299 °	-121.516299 °
DWR ID	DWR_RD0150_02_s _ 2012_58				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_58\_20160219\_00032.jpg



Landscaping providing a screen for a residence on landside of levee at  
LM 7.12

LM Start	7.22	Rating **	M	Issue No.	32
LM End	7.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.406454 °	38.406454 °
				-121.517732 °	-121.517732 °
DWR ID	DWR_RD0150_02_s _ 2012_32				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	7.77	Rating **	M	Issue No.	41
LM End	7.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.413563 °	38.413563 °
				-121.522593 °	-121.522593 °
DWR ID	DWR_RD0150_02_s _ 2013_41				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	03/15/2016 03/15/2016	Pavel Kazi

LM Start	7.79	Rating **	M	Issue No.	56
LM End	7.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.413705 °	38.413705 °
				-121.522806 °	-121.522806 °
DWR ID	DWR_RD0150_02_s_2012_56				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_16\_56\_20160219\_00031.jpg



Landscaping on landside of levee at LM 7.92

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2016 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway			Bank	Unit Miles
Unit No. 03 Elk Slough			Left	9.41
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/16/2016 - 3/16/2016			
DWR Inspector	Pavel Kazi			
Accompanied By	Warren Boggle RD 150			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	0.01	Rating **	M	Issue No.	2
LM End	9.40	Issue Type +	Ob	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.332735 °	38.413893 °
				-121.583625 °	-121.522896 °
DWR ID	DWR_RD0150_03_s_2016_2				
Comment Code					
Inspector Comment					
1997 - Most of lower Elk Slough contains high near vertical banks, with erosion into the levee slope. Channel almost appears incised. 2002 - Sites where the levee slope is near vertical and severely eroding. It could fail catastrophically. 2004 - Looks bad in terms of vertical slopes and fallen trees. 2005 - Banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2006 - Both banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2010 - The entire reach is in poor condition, with severely eroding near vertical slopes, needs a regional repair. 2011 - Channel banks are still oversteepened with erosion continuing. 2012 - New cracks and animal holes observed. 2015: No observed changes. [2015 Site ID: ELK_0-2_L]					

No Photos

LM Start	0.11	Rating **	M	Issue No.	936
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.334233 °	38.334233 °
				-121.583414 °	-121.583414 °
DWR ID	DWR_RD0150_03_s_2012_936				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_936\_20160219\_00097.jpg



View of elderberry bush within 20 feet of shoulder blocking visibility and access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	0.35	Rating **	M	Issue No.	3
LM End	0.35	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.337442 °	38.337442 °
				-121.581628 °	-121.581628 °
DWR ID	DWR_RD0150_03_s_2012_3				
Comment Code					
BU : Building					
Inspector Comment					
Steps, water, electricity, and dock on waterward slope.					

LM Start	<b>0.35</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>0.35</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : SP\_2016\_RD0150\_17\_3\_20160219\_00001.jpg



View of a house on the landside toe of the levee looking upstream.

Photo 2 of 2 : SP\_2016\_RD0150\_17\_3\_20160219\_00002.jpg



View of steps, a dock, and associated utilities on the waterward slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	0.39	Rating **	M	Issue No.	964
LM End	0.39	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.337928 °	38.337928 °
				-121.581496 °	-121.581496 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42694 DS_ID:22453 EP_NO: 13612 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned. Proper abandone needs. FIELD_STRUCT_DESC: Abandoned 6-inch steel pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterward slope. FS Date: 8/20/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_42694\_32005.jpg



WS view: pipe and pump on levee slope.

LM Start	<b>0.39</b>	Rating **	M	Issue No.	<b>964 (cont)</b>
LM End	<b>0.39</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_42694\_32004.jpg



WS view: safety valve on steel pipe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

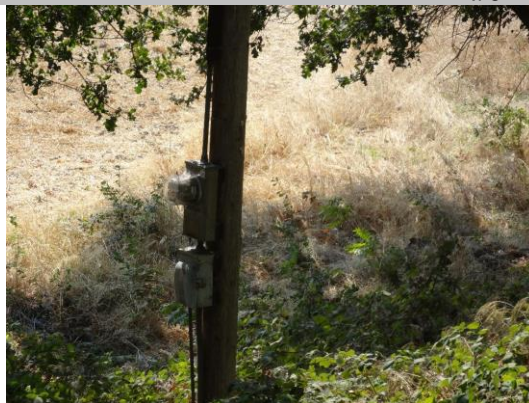
**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	0.40	Rating **	M	Issue No.	963
LM End	0.40	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.338131 °	38.338131 °
				-121.581434 °	-121.581434 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42693 DS_ID:22454 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seems to be abandoned. Service pole on LS slope.  1" conduit through levee.May need proper abandonment. FIELD_STRUCT_DESC: 6-inch steel pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterward slope. FS Date: 8/20/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_42693\_31979.jpg



LS view: service pole on levee slope.

LM Start	<b>0.40</b>	Rating **	M	Issue No.	<b>963 (cont)</b>
LM End	<b>0.40</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_42693\_31978.jpg



LS view: no pipe on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	0.41	Rating **	M	Issue No.	76
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.338311 °	38.354484 °
				-121.581394 °	-121.564198 °
DWR ID	DWR_RD0150_03_s_2016_76				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_76\_20160321\_00142.jpg



View of the vegetation on the landside of the levee.

LM Start	0.41	Rating **	M	Issue No.	74
LM End	2.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.338311 °	38.354485 °
				-121.581394 °	-121.564199 °
DWR ID	DWR_RD0150_03_s_2016_74				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_74\_20160321\_00143.jpg



View of the vegetation on the waterside of the levee.

LM Start	0.59	Rating **	C	Issue No.	54
LM End	0.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.340741 °	38.340741 °
				-121.580797 °	-121.580797 °
DWR ID	DWR_RD0150_03_f_2014_54				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	0.61	Rating **	C	Issue No.	390
LM End	0.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.341056 °	38.341056 °
				-121.580676 °	-121.580676 °
DWR ID	DWR_RD0150_03_s_2015_390				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.92	Rating **	M	Issue No.	5
LM End	0.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.345493 °	38.345493 °
				-121.579682 °	-121.579682 °
DWR ID	DWR_RD0150_03_s_2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_5\_20160219\_00005.jpg



View of elderberries on the landward slope of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	1.35	Rating **	M	Issue No.	952
LM End	1.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.347489 °	38.347489 °
				-121.573302 °	-121.573302 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:19112  
DS\_ID:22433  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: No handrail on wooden walkway.  
FIELD\_STRUCT\_DESC: 14-inch steel pipe through the levee, 8.0 feet below the crown, pump in pump house on the waterward slope. Service pole and steel distribution box on the landward slope.  
FS Date: 8/20/2013

LM Start	1.35	Rating **	M	Issue No.	952 (cont)
LM End	1.35	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_19112\_32044.jpg



WS view: pipe on levee slope and pump house in channel.

Photo 2 of 2 : UCIP\_SP\_2016\_19112\_32043.jpg



WS view: concrete headwall and exposed pipe on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	1.40	Rating **	M	Issue No.	393
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.347880 °	38.347880 °
				-121.572500 °	-121.572500 °
DWR ID	DWR_RD0150_03_s_2015_393				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_393\_20160219\_00091.jpg



Rodent holes were found on the waterside of the levee looking downstream.

LM Start	1.78	Rating **	M	Issue No.	951
LM End	1.78	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.353180 °	38.353180 °
				-121.572907 °	-121.572907 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19137 DS_ID:22434 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Small depression on WS slope due to leak from pump. Pipe opens on LS ditch/depression. FIELD_STRUCT_DESC: 10-inch pipe through the levee, 3.4 feet below the crown, pump, gate valve and service pole on the waterward slope. FS Date: 8/20/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_19137\_32108.jpg



WS view: exposed pipe and power pole on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	1.78	Rating **	M	Issue No.	951 (cont)
LM End	1.78	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.353180 °	38.353180 °
				-121.572907 °	-121.572907 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19137 DS_ID:22434 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Small depression on WS slope due to leak from pump. Pipe opens on LS ditch/depression. FIELD_STRUCT_DESC: 10-inch pipe through the levee, 3.4 feet below the crown, pump, gate valve and service pole on the waterward slope. FS Date: 8/20/2013					

Photo 2 of 2 : UCIP\_SP\_2016\_19137\_32107.jpg



WS view: exposed pipe on levee slope.

LM Start	1.78	Rating **	M	Issue No.	50
LM End	1.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.353249 °	38.353249 °
				-121.572848 °	-121.572848 °
DWR ID	DWR_RD0150_03_s_2012_50				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion appeared under the pipe.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_50\_20160219\_00043.jpg



Steps were dug next to the pipe and also erosion was found near the vicinity of the pipe on the waterside slope of the levee looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	1.83	Rating **	M	Issue No.	85
LM End	1.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.353761 °	38.353761 °
				-121.572390 °	-121.572390 °
DWR ID	DWR_RD0150_03_s_2016_85				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_85\_20160321\_00144.jpg



View of broken tree trunk on the waterside slope of the levee.

LM Start	2.24	Rating **	M	Issue No.	75
LM End	2.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.353811 °	38.353811 °
				-121.565668 °	-121.565668 °
DWR ID	DWR_RD0150_03_f_2014_75				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Newly planted tree was found on the landside slope of the levee.					

Photo 1 of 2 : SP\_2016\_RD0150\_17\_75\_20160321\_00145.jpg



Updated picture of the newly planted tree on the landside shoulder of the levee during spring 2016.

LM Start	<b>2.24</b>	Rating **	M	Issue No.	<b>75 (cont)</b>
LM End	<b>2.24</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2016\_RD0150\_17\_75\_20160219\_00069.jpg



View of a few trees that were planted on the landside slope of the levee looking upstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	2.31	Rating **	M	Issue No.	78
LM End	2.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.354286 °	38.354286 °
				-121.564494 °	-121.564494 °
DWR ID	DWR_RD0150_03_s_2012_78				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
New tree was planted on the landside slope.					

LM Start	<b>2.31</b>	Rating **	M	Issue No.	<b>78 (cont)</b>
LM End	<b>2.31</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 4 : SP\_2016\_RD0150\_17\_78\_20160219\_00071.jpg



Updated picture of the trees on the landside of the levee during spring 2015 inspection.

Photo 2 of 4 : SP\_2016\_RD0150\_17\_78\_20160219\_00072.jpg



View of the newly planted tree on the landside slope of the levee during spring 2014 inspection.

LM Start	<b>2.31</b>	Rating **	M	Issue No.	<b>78 (cont)</b>
LM End	<b>2.31</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP\_2016\_RD0150\_17\_78\_20160219\_00073.jpg



Several newly planted trees were found on the landside slope of the levee looking upstream during the fall 2013 inspection.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



# Reclamation District No. 0150 Merrit Island



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	2.66	Rating **	M	Issue No.	34
LM End	2.66	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.358406 °	38.358406 °
				-121.561300 °	-121.561300 °
DWR ID	DWR_RD0150_03_s_2013_34				
Comment Code					
PI : Pipe					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_34\_20160219\_00027.jpg



A pipe was found on the waterside shoulder of the levee looking downstream during spring 2013 inspection.

LM Start	2.80	Rating **	M	Issue No.	35
LM End	2.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.360432 °	38.360432 °
				-121.561644 °	-121.561644 °
DWR ID	DWR_RD0150_03_s_2013_35				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0150\_17\_35\_20160219\_00028.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	2.80	Rating **	M	Issue No.	35 (cont)	
LM End	2.80	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.360432 °		38.360432 °
				-121.561644 °		-121.561644 °
DWR ID	DWR_RD0150_03_s _ 2013_35					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						

Photo 2 of 2 : SP\_2016\_RD0150\_17\_35\_20160219\_00029.jpg



Updated picture of the erosion on the waterside slope of the levee during spring 2014 inspection.

LM Start	2.82	Rating **	N	Issue No.	17
LM End	2.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.360621 °	38.360621 °
				-121.561762 °	-121.561762 °
DWR ID	DWR_RD0150_03_s _2012_17				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_17\_20160219\_00015.jpg



View of tree stumps on the waterward slope.

LM Start	3.15	Rating **	N	Issue No.	20
LM End	3.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.363658 °	38.363658 °
				-121.559583 °	-121.559583 °
DWR ID	DWR_RD0150_03_s _ 2012_20				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_20\_20160219\_00016.jpg



View of tree stumps on the waterward slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	3.20	Rating **	M	Issue No.	77
LM End	3.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.363364 °	38.363364 °
				-121.558682 °	-121.558682 °
DWR ID	DWR_RD0150_03_f_2014_77				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_77\_20160219\_00070.jpg



A rodent hole was found on the waterside of the levee looking upstream.

LM Start	3.28	Rating **	M	Issue No.	113
LM End	3.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.362992 °	38.362992 °
				-121.557275 °	-121.557275 °
DWR ID	DWR_RD0150_03_f_2013_113				
Comment Code					
PO : Pole					
Inspector Comment					
Unused pole on the landside shoulder of the levee					

No Photos

LM Start	3.31	Rating **	M	Issue No.	40
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363008 °	38.363008 °
				-121.556751 °	-121.556751 °
DWR ID	DWR_RD0150_03_s_2013_40				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0150\_17\_40\_20160219\_00033.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	3.31	Rating **	M	Issue No.	40 (cont)	
LM End	3.31	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.363008 °		38.363008 °
				-121.556751 °		-121.556751 °
DWR ID	DWR_RD0150_03_s_2013_40					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						

Photo 2 of 2 : SP\_2016\_RD0150\_17\_40\_20160219\_00034.jpg



Updated picture of the erosion on the waterside of the levee looking upstream during fall 2014 inspection.

LM Start	3.34	Rating **	N	Issue No.	27
LM End	3.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.363147 °	38.363147 °
				-121.556190 °	-121.556190 °
DWR ID	DWR_RD0150_03_s_2012_27				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_27\_20160219\_00020.jpg



View of tree stumps on the waterside slope looking upstream.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	3.39	Rating **	M	Issue No.	958
LM End	3.39	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.363520 °	38.363520 °
				-121.555571 °	-121.555571 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41729 DS_ID:22439 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Leaky concrete standpipe on landside levee toe creating some erosion.- pump was working at the time of inspection. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 3.7 feet below the crown. Service pole on the waterward slope and pump on piling in the stream. Concrete stand pipe on landside levee toe. (A. Pylman) O&M Manual SAC 112, March 1957. FS Date: 8/20/2013					

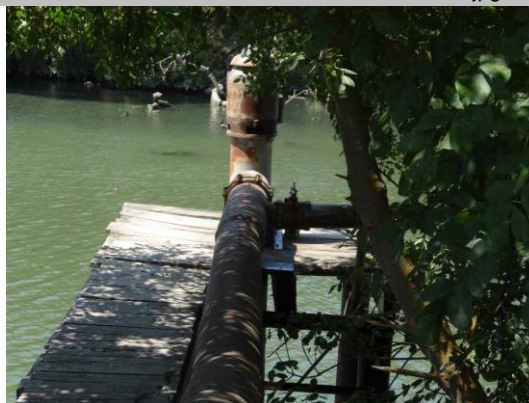
LM Start	<b>3.39</b>	Rating **	M	Issue No.	<b>958 (cont)</b>
LM End	<b>3.39</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_41729\_35013.jpg



WS view: exposed pipe, walkway, service pole on levee slope and pump support in channel.

Photo 2 of 2 : UCIP\_SP\_2016\_41729\_35012.jpg



WS view: steel pipe &amp; pump, walkway, pump support in the channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	3.39	Rating **	M	Issue No.	114
LM End	3.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.363540 °	38.363540 °
				-121.555555 °	-121.555555 °
DWR ID	DWR_RD0150_03_f_2013_114				
Comment Code					
ST : Stairway					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_114\_20160219\_00087.jpg



View of steps that were dug on the waterside slope of the levee looking upstream.

LM Start	3.39	Rating **	U	Issue No.	115	
LM End	3.39	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.363540 °		38.363540 °
				-121.555554 °		-121.555554 °
DWR ID	DWR_RD0150_03_f_2013_115					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion (ditch) was found on the landside toe of the levee.						

Photo 1 of 2 : SP\_2016\_RD0150\_17\_115\_20160219\_00088.jpg



Updated picture of the ditch on the landside toe of the levee during fall 2015 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	3.39	Rating **	U	Issue No.	115 (cont)	
LM End	3.39	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.363540 °	38.363540 °	
				-121.555554 °	-121.555554 °	
DWR ID	DWR_RD0150_03_f_2013_115					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion (ditch) was found on the landside toe of the levee.						

A drainage ditch with depth of 4 feet and width of 15 feet was found on the landside toe of the levee. The picture was taken from the landside slope looking upstream during the fall 2013 inspection.

LM Start	3.41	Rating **	U	Issue No.	98
LM End	3.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363803 °	38.363803 °
				-121.555432 °	-121.555432 °
DWR ID	DWR_RD0150_03_s_2012_98				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion was located on the waterside of the levee looking downstream.					

A photograph showing a cross-section of a riverbank. The foreground is a wide, flat area covered in grey gravel. To the right, a steep, eroded bank reveals several large, dark, gnarled tree roots extending horizontally and diagonally into the gravel. Patches of green grass and small plants are growing along the top edge of the bank and in the crevices between the roots. On the far left, a portion of a paved road and a metal guardrail are visible. The background shows more dense green foliage and trees.

Erosion was found on the waterside of the levee looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	3.44	Rating **	M	Issue No.	47
LM End	3.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.364251 °	38.364772 °
				-121.555321 °	-121.555343 °
DWR ID	DWR_RD0150_03_s_2012_47				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_47\_20160219\_00040.jpg



Landscaping &amp; garden on landward slope of levee at LM 3.50 to LM 3.54.

LM Start	3.51	Rating **	M	Issue No.	42
LM End	3.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.365259 °	38.365259 °
				-121.555429 °	-121.555429 °
DWR ID	DWR_RD0150_03_f_2015_42				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_42\_20160219\_00035.jpg



View of a rodent hole on the waterside of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	3.66	Rating **	U	Issue No.	956
LM End	3.66	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.367213 °	38.367213 °
				-121.555273 °	-121.555273 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20766					
DS_ID:22440					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Concrete standpipe on LS. Levee damage.Gate valve on WS not found.Safety valve on WS pipe.					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.9 feet below the crown. Pump on the waterward slope. Concrete standpipe at the landward toe. (R. & J. Pylman) O&M Manual SAC 112, March 1957.					
FS Date: 8/20/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_20766\_35018.jpg



WS view: steel pipe and pump on levee slope.

LM Start	<b>3.66</b>	Rating **	U	Issue No.	<b>956 (cont)</b>
LM End	<b>3.66</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_20766\_35021.jpg



WS view: steel pipe with safety valve (marked) on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	3.72	Rating **	C	Issue No.	45
LM End	3.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.367381 °	38.367381 °
				-121.554102 °	-121.554102 °
DWR ID	DWR_RD0150_03_f_2015_45				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.79	Rating **	M	Issue No.	116
LM End	3.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.367535 °	38.367535 °
				-121.552815 °	-121.552815 °
DWR ID	DWR_RD0150_03_f_2013_116				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

LM Start	3.99	Rating **	M	Issue No.	91
LM End	9.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.369707 °	38.412986 °
				-121.551756 °	-121.524148 °
DWR ID	DWR_RD0150_03_s_2016_91				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	4.02	Rating **	M	Issue No.	93
LM End	4.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.370125 °	38.370125 °
				-121.552030 °	-121.552030 °
DWR ID	DWR_RD0150_03_s _ 2016_93				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on the waterside toe of the levee.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_93\_20160321\_00147.jpg



An erosion was found on the waterside toe of the levee.

LM Start	4.28	Rating **	C	Issue No.	37
LM End	4.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.373319 °	38.373319 °
				-121.550836 °	-121.550836 °
DWR ID	DWR_RD0150_03_s _ 2012_37				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	4.38	Rating **	M	Issue No.	51
LM End	4.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.374269 °	38.374269 °
				-121.549385 °	-121.549385 °
DWR ID	DWR_RD0150_03_s _ 2012_51				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 4 : SP\_2016\_RD0150\_17\_51\_20160219\_00044.jpg



Remove pruning pile on landward slope at LM 4.46.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	4.38	Rating **	M	Issue No.	51 (cont)	
LM End	4.38	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.374269 °		38.374269 °
				-121.549385 °		-121.549385 °
DWR ID	DWR_RD0150_03_s_2012_51					
Comment Code						
PR : Prunings						
Inspector Comment						

LM Start	<b>4.38</b>	Rating **	M	Issue No.	<b>51 (cont)</b>
LM End	<b>4.38</b>	Issue Type +	En	Location *	LS

LM Start	<b>4.38</b>	Rating **	M	Issue No.	<b>51 (cont)</b>
LM End	<b>4.38</b>	Issue Type +	En	Location *	LS

Photo 2 of 4 : SP\_2016\_RD0150\_17\_51\_20160219\_00045.jpg



Prunings were found on the landside of the levee looking downstream.

Photo 3 of 4 : SP\_2016\_RD0150\_17\_51\_20160219\_00046.jpg



Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2012 inspection.

Photo 4 of 4 : SP\_2016\_RD0150\_17\_51\_20160219\_00047.jpg



Updated picture of the pruning pile on the landside of the levee looking upstream during the fall 2013 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	4.49	Rating **	U	Issue No.	80
LM End	4.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.374355 °	38.374355 °
				-121.547436 °	-121.547436 °
DWR ID	DWR_RD0150_03_s_2014_80				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_80\_20160219\_00075.jpg



View of an erosion site on the waterside toe of the levee looking upstream.

LM Start	4.49	Rating **	M	Issue No.	94
LM End	4.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.374367 °	38.374367 °
				-121.547327 °	-121.547327 °
DWR ID	DWR_RD0150_03_s_2012_94				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	4.63	Rating **	M	Issue No.	953
LM End	4.63	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.374934 °	38.374934 °
				-121.545029 °	-121.545029 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19281					
DS_ID:22444					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - service pole on LS. 1" conduit on WS.- levee toe cut out on landside.- walkway and gate.					
FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 3.8 feet below the crown, pump on piling in stream. Concrete standpipe at the landward toe. (P. Cook) O&M Manual SAC 112, March 1957.					
FS Date: 8/20/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_19281\_32541.jpg



WS view: vertical pump on deck.

LM Start	<b>4.63</b>	Rating **	M	Issue No.	<b>953 (cont)</b>
LM End	<b>4.63</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_SP\_2016\_19281\_32540.jpg



WS view: 1-inch GI conduit (left) and steel pipe (right)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	4.90	Rating **	M	Issue No.	954
LM End	4.90	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.377718 °	38.377718 °
				-121.541413 °	-121.541413 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19283					
DS_ID:22445					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - seems abandoned.- may need proper abandonment					
FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee, 7.2 feet below the crown, gate valve on the landward end. (D. Conner) O&M Manual SAC 112, March 1957.					
FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_19283\_32565.jpg



WS view: steel pipe on levee slope and in the stream.

LM Start	<b>4.90</b>	Rating **	M	Issue No.	<b>954 (cont)</b>
LM End	<b>4.90</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_SP\_2016\_19283\_32564.jpg



LS view: abandoned pump set and concrete box on levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	4.91	Rating **	M	Issue No.	9
LM End	4.91	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.377761 °	38.377761 °
				-121.541319 °	-121.541319 °
DWR ID	DWR_RD0150_03_s_2012_9				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_9\_20160219\_00007.jpg



Equipment on the landside toe of the levee. The picture was taken from crown looking downstream.

LM Start	4.99	Rating **	M	Issue No.	36
LM End	4.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.378771 °	38.378771 °
				-121.540538 °	-121.540538 °
DWR ID	DWR_RD0150_03_f_2012_36				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0150\_17\_36\_20160219\_00030.jpg



Updated picture of the slope instability of the waterside shoulder of the levee during fall 2015 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	4.99	Rating **	M	Issue No.	36 (cont)	
LM End	4.99	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.378771 °		38.378771 °
				-121.540538 °		-121.540538 °
DWR ID	DWR_RD0150_03_f_2012_36					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						

Photo 2 of 2 : SP\_2016\_RD0150\_17\_36\_20160219\_00031.jpg



Slope instability was found on the waterside of the levee looking upstream.

LM Start	5.04	Rating **	M	Issue No.	4
LM End	5.04	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.379456 °	38.379456 °
				-121.540147 °	-121.540147 °
DWR ID	DWR_RD0150_03_s_2012_4				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0150\_17\_4\_20160219\_00003.jpg



Updated picture of the slope instability on the waterside slope of the levee looking downstream during the fall 2013 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	5.09	Rating **	M	Issue No.	48
LM End	5.09	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.380110 °	38.380110 °
				-121.540061 °	-121.540061 °
DWR ID	DWR_RD0150_03_f_2015_48				
Comment Code					
ST : Stairway					
Inspector Comment					
Unpermitted stairway.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_48\_20160219\_00041.jpg



View of a stairway on the waterside of the levee.

LM Start	5.14	Rating **	M	Issue No.	941	
LM End	5.14	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Crown Surface / Depressions / Rutting			38.380779 °		38.380779 °
				-121.540264 °		-121.540264 °
DWR ID	DWR_RD0150_03_s_2012_941					
Comment Code						
C2 : Repair depressions or ruts in the crown or slope.						
Inspector Comment						
There is a significant difference in the crown roadway elevation as it transitions from the paved roadway to the gravel access road.						

Photo 1 of 1 : SP\_2016\_RD0150\_17\_941\_20160219\_00098.jpg



View of varying elevations in the crown of the levee at the transition from county road to access road.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	5.32	Rating **	M	Issue No.	96
LM End	5.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.381843 °	38.381843 °
				-121.543117 °	-121.543117 °
DWR ID	DWR_RD0150_03_s_2016_96				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree/root damaged levee slope.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_96\_20160321\_00149.jpg



Broken tree roots and tree trunks were found on the waterside toe of the levee.

LM Start	5.51	Rating **	M	Issue No.	12
LM End	5.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.383328 °	38.383328 °
				-121.545825 °	-121.545825 °
DWR ID	DWR_RD0150_03_s_2012_12				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 4 : SP\_2016\_RD0150\_17\_12\_20160219\_00009.jpg



Prunings were found on the landside of the levee looking upstream.

LM Start	<b>5.51</b>	Rating **	M	Issue No.	<b>12 (cont)</b>
LM End	<b>5.51</b>	Issue Type +	En	Location *	LS

Photo 2 of 4 : SP\_2016\_RD0150\_17\_12\_20160219\_00010.jpg



Updated picture of pruning pile on the landside toe of the levee looking upstream during the fall 2013 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2016

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	5.51	Rating **	M	Issue No.	12 (cont)	
LM End	5.51	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.383328 °		38.383328 °
				-121.545825 °		-121.545825 °
DWR ID	DWR_RD0150_03_s_2012_12					
Comment Code						
PR : Prunings						
Inspector Comment						

LM Start	<b>5.51</b>	Rating **	M	Issue No.	<b>12 (cont)</b>
LM End	<b>5.51</b>	Issue Type +	En	Location *	LS

Photo 3 of 4 : SP\_2016\_RD0150\_17\_12\_20160219\_00011.jpg



Updated picture of debris and pruning on the landside toe of the levee looking upstream. This picture was taken during spring 2013 inspection.

Photo 4 of 4 : SP\_2016\_RD0150\_17\_12\_20160219\_00012.jpg



Pruning was found on the landside toe of the levee looking upstream. This picture was taken during fall 2012 inspection.

LM Start	5.56	Rating **	N	Issue No.	68
LM End	5.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383697 °	38.383697 °
				-121.545201 °	-121.545201 °
DWR ID	DWR_RD0150_03_s_2012_68				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_68\_20160219\_00067.jpg



Tree stump was found on the waterside of the levee looking upstream.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	5.69	Rating **	U	Issue No.	97
LM End	5.69	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.383958 °	38.383958 °
				-121.542830 °	-121.542830 °
DWR ID	DWR_RD0150_03_s_2016_97				
Comment Code					
PO : Pole					
Inspector Comment					
A broken electrical pole with electric wire was blocking the access on the levee crown.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_97\_20160321\_00150.jpg



A broken electrical pole was blocking the accessibility on the levee crown. The picture was taken from landside slope of the levee looking upstream.

LM Start	5.69	Rating **	N	Issue No.	41
LM End	5.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383969 °	38.383969 °
				-121.542806 °	-121.542806 °
DWR ID	DWR_RD0150_03_s_2012_41				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	5.70	Rating **	M	Issue No.	957
LM End	5.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.383996 °	38.383996 °
				-121.542638 °	-121.542638 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:28265 DS_ID:22448 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - levee toe cut out at open end of the pipe.- service pole and control box on river bank. FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 7.8 feet below crown. Pump and gate valve on steel platform. Cross fence, wire drag gate. (Permit No. 1167, D. Conner) O&M Manual SAC 112, March 1957. FS Date: 8/23/2013					

LM Start	<b>5.70</b>	Rating **	M	Issue No.	<b>957 (cont)</b>
LM End	<b>5.70</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_28265\_51974.jpg



WS view: walkway, pipe, pump and support deck on river bank.

Photo 2 of 2 : UCIP\_SP\_2016\_28265\_51973.jpg



WS view: electric control box and power pole.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	5.78	Rating **	M	Issue No.	28
LM End	5.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.384333 °	38.384333 °
				-121.541310 °	-121.541310 °
DWR ID	DWR_RD0150_03_s_2012_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_28\_20160219\_00021.jpg



Wild growth was found on the waterside slope of the levee looking upstream.

LM Start	5.79	Rating **	M	Issue No.	56
LM End	5.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384363 °	38.384796 °
				-121.541161 °	-121.540525 °
DWR ID	DWR_RD0150_03_s_2012_56				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_56\_20160219\_00052.jpg



View of fence around a horse pen along the shoulder of the levee and the landward slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	5.82	Rating **	M	Issue No.	57
LM End	5.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384648 °	38.384648 °
				-121.540669 °	-121.540669 °
DWR ID	DWR_RD0150_03_s_2012_57				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_57\_20160219\_00053.jpg



View of a tree trunk lying on the landward slope blocking visibility.

LM Start	5.83	Rating **	U	Issue No.	58
LM End	5.83	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384803 °	38.384803 °
				-121.540545 °	-121.540545 °
DWR ID	DWR_RD0150_03_s_2012_58				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_58\_20160219\_00054.jpg



Building &amp; associated landscaping on levee crown.

LM Start	5.91	Rating **	M	Issue No.	21
LM End	5.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.385752 °	38.386703 °
				-121.539905 °	-121.540042 °
DWR ID	DWR_RD0150_03_s_2012_21				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_21\_20160219\_00017.jpg



Landscaping was found on the landside of the levee looking upstream.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	5.95	Rating **	M	Issue No.	33
LM End	5.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.386351 °	38.386351 °
				-121.539828 °	-121.539828 °
DWR ID	DWR_RD0150_03_s_2012_33				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_33\_20160219\_00026.jpg



Tree trunks and vegetation was obstructing the visibility on the waterside slope of the levee looking downstream.

LM Start	5.95	Rating **	M	Issue No.	955
LM End	5.95	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.386402 °	38.386402 °
				-121.539834 °	-121.539834 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19403					
DS_ID:22451					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - pipe ends open on both sides of the levee.- abandoned concrete box on WS.- two abandoned steel pipes (6" and 1") also found on WS. - needs proper abandonment					
FIELD_STRUCT_DESC: Abandoned 6-inch steel pipe through the levee, 2.5 feet below the crown. Power pole on the landward slope. (W. Bogle). O&M Manual SAC 112, March 1957.					
FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_19403\_32942.jpg



WS view: open ended 6" steel pipe (top-left), 1" steel pipe (bottom), and another 6" steel pipe (right) on levee slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	5.95	Rating **	M	Issue No.	955 (cont)	
LM End	5.95	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.386402 °	38.386402 °	
				-121.539834 °	-121.539834 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19403						
DS_ID:22451						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - pipe ends open on both sides of the levee.- abandoned concrete box on WS.- two abandoned steel pipes (6" and 1") also found on WS. - needs proper abandonment						
FIELD_STRUCT_DESC: Abandoned 6-inch steel pipe through the levee, 2.5 feet below the crown. Power pole on the landward slope. (W. Bogle). O&M Manual SAC 112, March 1957.						
FS Date: 8/23/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_19403\_32941.jpg



WS view: Abandoned concrete box (top). Open ended 6" steel pipe, 1" steel pipe, and another 6" steel pipe on levee slope.

LM Start	5.96	Rating **	M	Issue No.	46
LM End	5.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.386422 °	38.386422 °
				-121.539861 °	-121.539861 °
DWR ID	DWR_RD0150_03_s_2012_46				
Comment Code					
PI : Pipe					
Inspector Comment					
Improperly abandoned pipe through the levee.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_46\_20160219\_00039.jpg



View of an improperly abandoned pipe through the levee looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	6.03	Rating **	M	Issue No.	44
LM End	6.03	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.387295 °	38.387295 °
				-121.540612 °	-121.540612 °
DWR ID	DWR_RD0150_03_s _ 2012_44				
Comment Code					
AV : Abandoned vehicles					
Inspector Comment					
It appeared to be an abandoned dock.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_44\_20160219\_00037.jpg



An abandoned dock was found on the waterside of the levee looking upstream.

LM Start	6.03	Rating **	M	Issue No.	23
LM End	6.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.387348 °	38.387348 °
				-121.540577 °	-121.540577 °
DWR ID	DWR_RD0150_03_s _ 2012_23				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	6.13	Rating **	U	Issue No.	24
LM End	6.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.388535 °	38.389391 °
				-121.541657 °	-121.541901 °
DWR ID	DWR_RD0150_03_s _ 2012_24				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_24\_20160219\_00018.jpg



Oleander on landward slope blocking view of levee.

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	6.23	Rating **	N	Issue No.	49
LM End	6.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.389658 °	38.389658 °
				-121.541518 °	-121.541518 °
DWR ID	DWR_RD0150_03_s_2012_49				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_49\_20160219\_00042.jpg



View of tree stumps on the waterward slope.

LM Start	6.23	Rating **	M	Issue No.	25
LM End	6.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.389700 °	38.389808 °
				-121.541462 °	-121.541285 °
DWR ID	DWR_RD0150_03_s_2012_25				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	6.25	Rating **	M	Issue No.	99
LM End	6.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.389857 °	38.389857 °
				-121.541193 °	-121.541193 °
DWR ID	DWR_RD0150_03_s_2016_99				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Newly planted tree on the landside slope of the levee.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_99\_20160321\_00151.jpg



View of newly planted tree on the landside slope of the levee.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	6.25	Rating **	U	Issue No.	26
LM End	6.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.389858 °	38.390115 °
				-121.541155 °	-121.540657 °
DWR ID	DWR_RD0150_03_s_2012_26				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_26\_20160219\_00019.jpg



Landscaping on landward slope.

LM Start	6.38	Rating **	U	Issue No.	62
LM End	6.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.390935 °	38.390935 °
				-121.539369 °	-121.539369 °
DWR ID	DWR_RD0150_03_s_2012_62				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0150\_17\_62\_20160219\_00059.jpg



Tree was blocking the visibility on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

LM Start	<b>6.38</b>	Rating **	U	Issue No.	<b>62 (cont)</b>
LM End	<b>6.38</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2016\_RD0150\_17\_62\_20160219\_00060.jpg



Vegetation on the waterside of the levee looking downstream.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	6.45	Rating **	M	Issue No.	60
LM End	6.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.391616 °	38.391616 °
				-121.538378 °	-121.538378 °
DWR ID	DWR_RD0150_03_s_2012_60				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_60\_20160219\_00056.jpg



View of landscaping along the landward slope.

LM Start	6.49	Rating **	M	Issue No.	43
LM End	6.49	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.392172 °	38.392172 °
				-121.538065 °	-121.538065 °
DWR ID	DWR_RD0150_03_f_2012_43				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_43\_20160219\_00036.jpg



Slope instability was found on the waterside of the levee looking downstream.

LM Start	6.52	Rating **	M	Issue No.	83
LM End	6.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.392580 °	38.392580 °
				-121.538059 °	-121.538059 °
DWR ID	DWR_RD0150_03_f _ 2014_83				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_83\_20160219\_00078.jpg



Prunings were found on the landside toe of the levee looking upstream.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	6.63	Rating **	M	Issue No.	962
LM End	6.63	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.394182 °	38.394182 °
				-121.538609 °	-121.538609 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42692					
DS_ID:22457					
EP_NO: 14650					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 5 feet below the crown. Concrete distribution box on landside levee toe.					
Diesel powered slant pump on water side. (Permit No. 14650 - Webber)					
FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_42692\_35082.jpg



WS view: steel pipe (right) and diesel pump on levee slope.

LM Start	<b>6.63</b>	Rating **	M	Issue No.	<b>962 (cont)</b>
LM End	<b>6.63</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_SP\_2016\_42692\_35081.jpg



WS view: diesel pump on steep levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	6.75	Rating **	U	Issue No.	30
LM End	6.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.395670 °	38.396027 °
				-121.537925 °	-121.536575 °
DWR ID	DWR_RD0150_03_s_2012_30				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_30\_20160219\_00022.jpg



Landscaping on landward slope blocking view from LM 6.87 to 6.95

LM Start	6.82	Rating **	M	Issue No.	13
LM End	6.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.395998 °	38.395470 °
				-121.536613 °	°
DWR ID	DWR_RD0150_03_s_2012_13				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_13\_20160219\_00013.jpg



Fence was found on the landside of the levee looking downstream.

LM Start	6.85	Rating **	U	Issue No.	933
LM End	6.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.396187 °	38.396989 °
				-121.536180 °	-121.535151 °
DWR ID	DWR_RD0150_03_s_2012_933				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping has been maintained better, but some obstructions still exist.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_933\_20160219\_00093.jpg



View of the landscape on the landside shoulder of the levee looking downstream.

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	6.90	Rating **	M	Issue No.	61
LM End	6.90	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.396655 °	38.396655 °
				-121.535485 °	-121.535485 °
DWR ID	DWR_RD0150_03_s_2012_61				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0150\_17\_61\_20160219\_00057.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

LM Start	<b>6.90</b>	Rating **	M	Issue No.	<b>61 (cont)</b>
LM End	<b>6.90</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2016\_RD0150\_17\_61\_20160219\_00058.jpg



Erosion was found on the waterside slope of the levee looking downstream. This updated picture was taken during fall 2012 inspection.

LM Start	6.91	Rating **	M	Issue No.	79
LM End	6.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.396698 °	38.396698 °
				-121.535406 °	-121.535406 °
DWR ID	DWR_RD0150_03_f_2012_79				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	6.93	Rating **	M	Issue No.	31
LM End	6.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.397021 °	38.397540 °
				-121.535151 °	-121.535183 °
DWR ID	DWR_RD0150_03_s_2012_31				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_31\_20160219\_00023.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

LM Start	7.21	Rating **	U	Issue No.	961
LM End	7.21	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.400883 °	38.400883 °
				-121.536200 °	-121.536200 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42689 DS_ID:22463 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - Safety valve on pipe on waterside.- Power pole on waterside.- gully formation (erosion) on waterside levee slope FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 7.7 feet below the crown, pump and gate valve on the waterward slope. Power pole on waterside. O&M Manual Sac 112, March 1957. FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_42689\_33582.jpg



WS view: 8-inch pipe and pump on levee slope (right)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	7.21	Rating **	U	Issue No.	961 (cont)	
LM End	7.21	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.400883 °	38.400883 °	
				-121.536200 °	-121.536200 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42689						
DS_ID:22463						
EP_NO: N/A						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: - Safety valve on pipe on waterside.- Power pole on waterside.- gully formation (erosion) on waterside levee slope						
FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 7.7 feet below the crown, pump and gate valve on the waterward slope. Power pole on waterside. O&M Manual Sac 112, March 1957.						
FS Date: 8/23/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_42689\_33581.jpg



WS view: electric GI conduit on levee slope.

LM Start	7.23	Rating **	M	Issue No.	100
LM End	9.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.401089 °	38.412987 °
				-121.536429 °	-121.524148 °
DWR ID	DWR_RD0150_03_s_2016_100				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_100\_20160321\_00152.jpg



View of the vegetation on the waterside slope of the levee looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	7.26	Rating **	U	Issue No.	64
LM End	7.26	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.401481 °	38.401481 °
				-121.536876 °	-121.536876 °
DWR ID	DWR_RD0150_03_s_2012_64				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_64\_20160219\_00062.jpg



Landscaping on the waterside of the levee. The picture was taken from the crown looking upstream.

LM Start	7.29	Rating **	U	Issue No.	32
LM End	7.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.401738 °	38.402296 °
				-121.537127 °	-121.537678 °
DWR ID	DWR_RD0150_03_s_2012_32				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0150\_17\_32\_20160219\_00024.jpg



Vegetation on the landside of the levee looking upstream. This picture was taken during spring 2012 inspection.

LM Start	<b>7.29</b>	Rating **	U	Issue No.	<b>32 (cont)</b>
LM End	<b>7.34</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP\_2016\_RD0150\_17\_32\_20160219\_00025.jpg



Landscaping on landward slope blocking view from LM 7.42 to 7.47

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	7.38	Rating **	N	Issue No.	63
LM End	7.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.402779 °	38.402779 °
				-121.538197 °	-121.538197 °
DWR ID	DWR_RD0150_03_s_2012_63				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_63\_20160219\_00061.jpg



View of a tree stump on the landward slope.

LM Start	7.40	Rating **	M	Issue No.	84
LM End	7.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403047 °	38.403047 °
				-121.538433 °	-121.538433 °
DWR ID	DWR_RD0150_03_s_2012_84				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_84\_20160219\_00079.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	7.44	Rating **	U	Issue No.	934
LM End	7.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403566 °	38.403566 °
				-121.538886 °	-121.538886 °
DWR ID	DWR_RD0150_03_s_2012_934				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_934\_20160219\_00094.jpg



Landscaping was blocking the visibility on the landside of the levee looking downstream.

LM Start	7.47	Rating **	M	Issue No.	935
LM End	7.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.403795 °	38.403795 °
				-121.539205 °	-121.539205 °
DWR ID	DWR_RD0150_03_s_2012_935				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0150\_17\_935\_20160219\_00095.jpg



Prunings were found on the landside of the levee looking upstream.

LM Start	<b>7.47</b>	Rating **	M	Issue No.	<b>935 (cont)</b>
LM End	<b>7.47</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2016\_RD0150\_17\_935\_20160219\_00096.jpg



Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2011 inspection.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	7.67	Rating **	M	Issue No.	1
LM End	7.67	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.405275 °	38.405275 °
				-121.542473 °	-121.542473 °
DWR ID	DWR_RD0150_03_s_2012_1				
Comment Code					
PO : Pole					
Inspector Comment					

No Photos

LM Start	7.68	Rating **	M	Issue No.	16	
LM End	7.68	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.405342 °	38.405342 °	
				-121.542553 °	-121.542553 °	
DWR ID	DWR_RD0150_03_s_2012_16					
Comment Code						
BU : Building						
Inspector Comment						

Photo 1 of 1 : SP\_2016\_RD0150\_17\_16\_20160219\_00014.jpg



Equipment and buiding was found on the landside of the levee looking upstream.

LM Start	7.70	Rating **	M	Issue No.	52
LM End	7.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.405536 °	38.405536 °
				-121.542752 °	-121.542752 °
DWR ID	DWR_RD0150_03_f_2015_52				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree trunks and stumps might damage the levee toe during high water.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_52\_20160219\_00048.jpg



View of the tree trunk on the waterside toe of the levee.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	7.74	Rating **	M	Issue No.	396
LM End	7.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.406098 °	38.406098 °
				-121.543028 °	-121.543028 °
DWR ID	DWR_RD0150_03_s_2015_396				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope instability caused by a tree.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_396\_20160219\_00092.jpg



Slope instability was found on the waterside toe of the levee looking upstream.

LM Start	7.91	Rating **	M	Issue No.	87
LM End	7.91	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.408342 °	38.408342 °
				-121.541580 °	-121.541580 °
DWR ID	DWR_RD0150_03_s_2012_87				
Comment Code					
MA : Material					
Inspector Comment					
A concrete or anchor block was found on the slope of the levee.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_87\_20160219\_00080.jpg



A concrete block was found on the waterside of the levee looking upstream.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	8.02	Rating **	M	Issue No.	92
LM End	8.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.409130 °	38.409130 °
				-121.539971 °	-121.539971 °
DWR ID	DWR_RD0150_03_s_2014_92				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

LM Start	<b>8.02</b>	Rating **	M	Issue No.	<b>92 (cont)</b>
LM End	<b>8.02</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2016\_RD0150\_17\_92\_20160219\_00084.jpg



Updated picture of the slope instability on the waterside of the levee looking upstream during spring 2015 inspection.

Photo 2 of 2 : SP\_2016\_RD0150\_17\_92\_20160219\_00085.jpg



A slope instability was found on the waterside of the levee looking downstream.

LM Start	8.02	Rating **	M	Issue No.	53
LM End	8.02	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.409145 °	38.409145 °
				-121.539831 °	-121.539831 °
DWR ID	DWR_RD0150_03_f_2015_53				
Comment Code					
PI : Pipe					
Inspector Comment					
An abandon pipe.					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_53\_20160219\_00049.jpg



View of a pipe on the waterside of the levee.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	8.05	Rating **	M	Issue No.	82
LM End	8.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.409224 °	38.409224 °
				-121.539350 °	-121.539350 °
DWR ID	DWR_RD0150_03_f_2013_82				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_82\_20160219\_00077.jpg



Prunings were found on the landside toe of the levee looking upstream.

LM Start	8.20	Rating **	U	Issue No.	960
LM End	8.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.408619 °	38.408619 °
				-121.536768 °	-121.536768 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42688					
DS_ID:22466					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: - needs proper abandonment- pile structure in stream- may need proper abandonment					
FIELD_STRUCT_DESC: 10-inch abandoned steel pipe through the levee, 13.8 feet below the crown. Gate valve on the waterward end.					
Service pole with guy wire on the landward slope. (A. Colby) O&M Manual SAC 112, March 1957.					
FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_42688\_33627.jpg



WS view: pipe visible on levee slope and in the stream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	8.20	Rating **	U	Issue No.	960 (cont)	
LM End	8.20	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.408619 °	38.408619 °	
				-121.536768 °	-121.536768 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42688						
DS_ID:22466						
EP_NO: N/A						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: - needs proper abandonment- pile structure in stream- may need proper abandonment						
FIELD_STRUCT_DESC: 10-inch abandoned steel pipe through the levee, 13.8 feet below the crown. Gate valve on the waterward end.						
Service pole with guy wire on the landward slope. (A. Colby) O&M						
Manual SAC 112, March 1957.						
FS Date: 8/23/2013						

Photo 2 of 2 : UCIP\_SP\_2016\_42688\_33626.jpg



WS view: abandoned gate valve found on levee slope.

LM Start	8.26	Rating **	M	Issue No.	65
LM End	8.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.408213 °	38.408213 °
				-121.535911 °	-121.535911 °
DWR ID	DWR_RD0150_03_f_2015_65				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_65\_20160219\_00063.jpg



View of erosion on the waterside of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	8.31	Rating **	M	Issue No.	66
LM End	8.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.407960 °	38.407960 °
				-121.534898 °	-121.534898 °
DWR ID	DWR_RD0150_03_s_2012_66				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_66\_20160219\_00064.jpg



Updated picture of the erosion on the waterside of the levee.

LM Start	8.33	Rating **	U	Issue No.	67
LM End	8.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.407958 °	38.407958 °
				-121.534583 °	-121.534583 °
DWR ID	DWR_RD0150_03_s_2012_67				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0150\_17\_67\_20160219\_00065.jpg



Updated picture of the erosion on the waterside shoulder looking upstream during spring 2014 inspection.

LM Start	<b>8.33</b>	Rating **	U	Issue No.	<b>67 (cont)</b>
LM End	<b>8.33</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2016\_RD0150\_17\_67\_20160219\_00066.jpg



Erosion was found on the waterside shoulder of the levee looking upstream. This picture was taken during fall 2012 inspection.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	8.37	Rating **	M	Issue No.	88
LM End	8.37	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.408155 °	38.408155 °
				-121.533982 °	-121.533982 °
DWR ID	DWR_RD0150_03_s_2012_88				
Comment Code					
PO : Pole					
Inspector Comment					

No Photos

LM Start	8.37	Rating **	U	Issue No.	89
LM End	8.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.408153 °	38.408153 °
				-121.533980 °	-121.533980 °
DWR ID	DWR_RD0150_03_s_2012_89				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP\_2016\_RD0150\_17\_89\_20160219\_00081.jpg



Updated picture of a rodent hole on the waterside shoulder of the levee during spring 2015 inspection.

LM Start	<b>8.37</b>	Rating **	U	Issue No.	<b>89 (cont)</b>
LM End	<b>8.37</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2016\_RD0150\_17\_89\_20160219\_00082.jpg



Updated picture of a rodent hole on the waterside shoulder of the levee during fall 2014 inspection.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	8.37	Rating **	M	Issue No.	959
LM End	8.37	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.408188 °	38.408188 °
				-121.533935 °	-121.533935 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41648 DS_ID:22467 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - walkway in poor functional condition- an abandoned 8-inch steel pipe next to 12" pipe. This 8" pipe might have merged with 12" pipe under the levee .- Pipe and pump inside concrete masonry wall. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 13.0 feet below the crown, pump and gate valve in pump house on the waterward slope. Concrete distribution box at the landward toe. Service pole on the waterward shoulder. O&M Manual SAC 112, March 1957. FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_SP\_2016\_41648\_33642.jpg



WS view: walkway and inlet pipe on levee slope.

LM Start	<b>8.37</b>	Rating **	M	Issue No.	<b>959 (cont)</b>
LM End	<b>8.37</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_41648\_33641.jpg



WS view: pump, gate valve, and airvent on pipe inside concrete masonry box.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	8.38	Rating **	M	Issue No.	69
LM End	8.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.408238 °	38.409291 °
				-121.533866 °	-121.532702 °
DWR ID	DWR_RD0150_03_s_2012_69				
Comment Code					
DT : Ditch					
Inspector Comment					
Irrigation ditch in landside toe					

No Photos

LM Start	8.46	Rating **	N	Issue No.	90
LM End	8.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409220 °	38.409220 °
				-121.532801 °	-121.532801 °
DWR ID	DWR_RD0150_03_s_2012_90				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_90\_20160219\_00083.jpg



A tree stump was found on the landside of the levee looking upstream.

LM Start	8.50	Rating **	N	Issue No.	55
LM End	8.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409559 °	38.409559 °
				-121.532356 °	-121.532356 °
DWR ID	DWR_RD0150_03_s_2012_55				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_55\_20160219\_00051.jpg



A tree stump was found on the waterside of the levee looking upstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	8.72	Rating **	M	Issue No.	7
LM End	8.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.411593 °	38.411593 °
				-121.529143 °	-121.529143 °
DWR ID	DWR_RD0150_03_s_2012_7				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_7\_20160219\_00006.jpg



Broken concrete pipe was left on the waterside slope of the levee. The picture was taken from the crown looking upstream.

LM Start	9.21	Rating **	N	Issue No.	59
LM End	9.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.413268 °	38.413268 °
				-121.525929 °	-121.525929 °
DWR ID	DWR_RD0150_03_s_2012_59				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_59\_20160219\_00055.jpg



A tree stump was found on the waterside of the levee looking upstream.

LM Start	9.35	Rating **	U	Issue No.	73
LM End	9.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.413169 °	38.413169 °
				-121.523707 °	-121.523707 °
DWR ID	DWR_RD0150_03_s_2012_73				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_73\_20160219\_00068.jpg



Thin/trim trees to allow for visibility of top 20' of waterward slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	03/16/2016 03/16/2016	Pavel Kazi

LM Start	9.39	Rating **	M	Issue No.	950
LM End	9.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.413560 °	38.413560 °
				-121.522936 °	-121.522936 °
DWR ID	DWR_RD0150_03_s_2012_950				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_RD0150\_17\_950\_20160219\_00099.jpg



Equipment was found on the landside of the levee looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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